TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-27-04** **Date:29-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-04/01
Sample Type	:	ACC cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-04-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.1	–
2	Finess by Air permeablity method (m^2/kg, Min)	288.5	225m^2/kg, Min
3	Density (gm/cc)	3.17	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-27-04** **Date:26-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-04/01
Sample Type	:	ACC cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-04-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	37.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-27-04** **Date: 30-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-04/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	853	853	5.7	94.3	90-100
3	20 mm	5769	6622	44.1	55.9	30-70
4	10 mm	5284	11906	79.4	20.6	10-35
5	4.75 mm	2634	14540	96.9	3.1	0-5
6	Pan	460	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-27-04** **Date: 30-04-2017**

Sample ID No : 2017-04-27-04/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.46	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.23	_

Note:

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-27-04** **Date: 30-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.
Customer Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-04/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	27-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	297	297	5.9	94.1	90-100
3	10 mm	3368	3665	73.3	26.7	25-55
4	4.75 mm	1087	4752	95.0	5.0	0-10
5	Pan	248	5000	100	0	_

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-27-04** **Date: 30-04-2017**

Sample ID No : 2017-04-27-04/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.44	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-27-04** **Date: 30-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-04-17

Sample ID No : 2017-04-27-04/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test :

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	74	74	7.4	92.6	90-100	90-100	90-100	95-100
3	2.36 mm	140	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	102	316	31.6	68.4	30-70	55-90	75-100	90-100
5	600 micron	176	492	49.2	50.8	15-34	35-59	60-79	80-100
6	300 micron	230	722	72.2	27.8	5-20	8-30	12-40	15-50
7	150 micron	209	931	93.1	6.9	0-10	0-10	0-10	0-15
8	Pan	69	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-27-04** **Date: 30-04-17**

Sample ID No : 2017-04-27-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.75	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	4.90	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-03-08** **Date: 08-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .

Agency : Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-17

Sample ID No : 2017-05-03-08/01

Customer ID : M20 concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 concrete	M20	01/05/2017	08/05/2017	150.22 X 150.54 X 150.55	22614	8.198	395.7	17.5	17.7
2	M20 concrete	M20	01/05/2017	08/05/2017	151.22 X 149.08 X 150.25	22544	8.165	410.3	18.2	
3	M20 concrete	M20	01/05/2017	08/05/2017	150.19 X 150.75 X 150.63	22641	8.172	391.7	17.3	

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Harsitha

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2017-05-03-08** **Date: 29-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-08/02
Customer ID	:	M20 concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 concrete	M20	01/05/2017	29/05/2017	151.22 X 151.54 X 150.23	22916	8.122	524.8	22.9	22.3
2	M20 concrete	M20	01/05/2017	29/05/2017	150.22 X 151.44 X 150.67	22749	8.113	493.7	21.7	
3	M20 concrete	M20	01/05/2017	29/05/2017	151.22 X 150.84 X 151.55	22810	8.124	506.4	22.2	

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Harsitha

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-03-08** **Date: 08-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .

Agency : Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-17

Sample ID No : 2017-05-03-08/03

Customer ID : M20 concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 concrete	M20	01/05/2017	08/05/2017	149.28 X 149.54 X 148.23	22323	8.138	377.3	16.9	17.2
2	M20 concrete	M20	01/05/2017	08/05/2017	151.32 X 148.84 X 149.77	22522	8.142	391.9	17.4	
3	M20 concrete	M20	01/05/2017	08/05/2017	150.22 X 151.34 X 149.55	22734	8.137	391.0	17.2	

Note:
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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-03-08** **Date: 29-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .

Agency : Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-17

Sample ID No : 2017-05-03-08/04

Customer ID : M20 concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 concrete	M20	01/05/2017	29/05/2017	149.87 X 149.43 X 148.91	22395	8.228	506.1	22.6	23.1
2	M20 concrete	M20	01/05/2017	29/05/2017	151.23 X 148.65 X 149.68	22480	8.243	519.3	23.1	
3	M20 concrete	M20	01/05/2017	29/05/2017	150.38 X 151.76 X 149.54	22822	8.238	536.3	23.5	

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Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-04-01** **Date: 08-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Contruction of Culverts at Ramachanadrapura and Surrounding area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-17
Sample ID No	:	2017-05-04-01/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-04-01** **Date: 08-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drains and Contruction of Culverts at Ramachanadrapura and Surrounding area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-17
Sample ID No	:	2017-05-04-01/02
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.43	200.51	3.165	7920	161.6	20.4	20.4	25.5
2	Cover Slab-2	100.5	200.49	3.117	7931	162.8	20.5	20.5	25.7
3	Cover Slab-3	100.48	200.48	3.201	7928	159.5	20.1	20.1	25.1

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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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****End of Report****

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-04-01** **Date: 06-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-56003
Customer's Reference	:	EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-17
Sample ID No	:	2017-05-04-01/03
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.615	568	685	21.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.887	585	692	19.0%	Satisfactory	Satisfactory
4	JSW	Fe500	16	1.575	592	712	19.5%	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-19-05** **Date: 23-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .

Agency : Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-05-17

Sample ID No : 2017-05-19-05/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	16/05/2017	23/05/2017	150.12 X 150.43 X 149.91	22583	8.136	277.8	12.3	12.7
2	PCC	M15	16/05/2017	23/05/2017	150.23 X 150.65 X 149.68	22632	8.137	285.2	12.6	
3	PCC	M15	16/05/2017	23/05/2017	148.38 X 150.76 X 150.54	22370	8.139	293.0	13.1	

Note:
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Prepared by
Harsitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13-06-17

Lab ID : **CP-2017-05-19-05**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to drains and construction of culverts at Ramchandrapura and surrounding area in Ward no.11 (Kuvempunagar) in Vidyaranyapura Sub Division .

Agency : Sri.K.Shankar Reddy, Contractor, # 46/2, Kaverinagara, Kavalbyrasandra, Bangalore-560032.

Customer's Reference : EE/BTP/BBMP/E-PMT/20(24377)/WO/209/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-05-17

Sample ID No : 2017-05-19-05/02

Customer ID : M20 concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 concrete	M20	16/05/2017	13/06/2017	149.22 X 150.13 X 149.94	22402	8.146	365.2	16.3	16.7
2	M20 concrete	M20	16/05/2017	13/06/2017	150.83 X 150.69 X 149.88	22729	8.145	393.2	17.3	
3	M20 concrete	M20	16/05/2017	13/06/2017	148.68 X 150.56 X 150.44	22385	8.149	367.1	16.4	

Note:
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Prepared by
Harsitha

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL PRO BANGALORE Sig. Date

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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